

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
13 January 2005 (13.01.2005)

PCT

(10) International Publication Number  
**WO 2005/003655 A1**

(51) International Patent Classification<sup>7</sup>: **F25D 3/06**, 31/00

[AU/AU]; Building 2, Port Air Industrial Estate, 1A Hale St, Botany, New South Wales 2019 (AU). **DAVENPORT, David** [AU/AU]; Building 2, Port Air Industrial Estate, 1A Hale St, Botany, New South Wales 2019 (AU).

(21) International Application Number:

PCT/AU2004/000457

(22) International Filing Date: 8 April 2004 (08.04.2004)

(74) Agent: **MOLINS, Michael**; Suite 5, Level 6, 139 Macquarie Street, Sydney, New South Wales 2000 (AU).

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2003903368 2 July 2003 (02.07.2003) AU

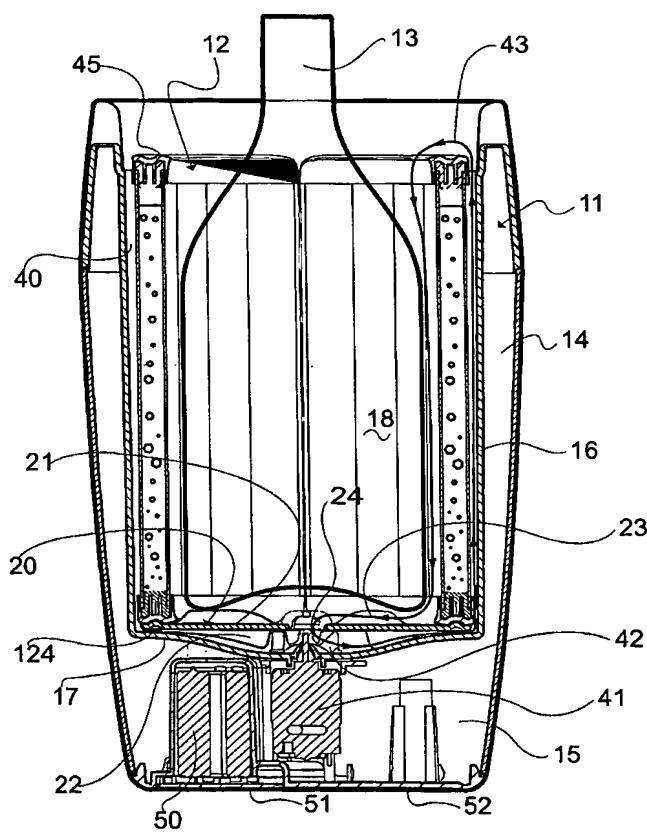
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(71) Applicant (for all designated States except US): **BREVILLE PTY LIMITED** [AU/AU]; Building 2, Port Air Industrial Estate, 1A Hale St, Botany, New South Wales 2019 (AU).

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

*[Continued on next page]*

(54) Title: CHILLER



(57) Abstract: A chiller for a container such as a wine bottle is disclosed. The chiller includes an insulated reservoir. Located within the reservoir are one or more reusable cold storage packs, known as freezer bricks. The bricks define a cooling ring that conforms to the interior of the container and define an annular gap between an exterior surface of the ring and an interior surface of the reservoir. An impeller is located at the bottom of the reservoir. The combination of ring and impeller establishes a vertical recirculation pattern that achieves rapid chilling.

WO 2005/003655 A1



GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— *with international search report*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Declaration under Rule 4.17:**

— *of inventorship (Rule 4.17(iv)) for US only*